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SEQUENCE LISTING

<110> Lyon, Jeffrey A.
 Angov, Evelina
 Cohen, Joe D.
 Voss, Gerald

<120> Recombinant *P. falciparum* Merozoite Protein-1₄₂ Vaccine

<130> 003/238/SAP

<140> US 10/057,532

<141> 2002-01-25

<150> US 60/264,535, US 60/347,564

<151> 2001-01-26, 2001-10-26

<160> 12

<170> Apple Macintosh Microsoft Word 6.0

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<212> PRT

<213> Artificial sequence

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Glu	Trp	Cys	Gly	Pro	Cys	Lys	Met	Ile	Ala		
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Leu Gly Thr Asp	Asp Asp Asp Lys	Ala Met	
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Ala Asp Ile Gly	Ser Ile Glu Gly	Arg Gly	
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Thr Met Ala Ile	Ser Val Thr Met	Asp Asn	
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Ile Leu Ser Gly	Phe Glu Asn Glu	Tyr Asp	
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Val Ile Tyr Leu	Lys Pro Leu Ala	Gly Val	
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Tyr Arg Ser Leu	Lys Lys Gln Ile	Glu Lys	
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	375		380
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Phe Lys Asn Pro	Tyr Asp Phe Glu Ala Ile		
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Ser Lys Leu Ile	Glu Gly Lys Phe Gln Asp		
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<213> Artificial sequence

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Sequence in pET(50)MSP1-42

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Arg	Leu	Lys	Lys	Arg	Lys	Tyr	Phe	Leu	Asp	165	170	175
Val	Leu	Glu	Ser	Asp	Leu	Met	Gln	Phe	Lys	180	185	190
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Lys	Val	Leu	Ala	Lys	Tyr	Lys	Asp	Asp	Leu			
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Lys	Glu	Lys	Phe	Pro	Ser	Ser	Pro	Pro	Thr			
Thr	Pro	Pro	Ser	Pro	Ala	Lys	Thr	Asp	Glu			
Gln	Lys	Lys	Glu	Ser	Lys	Phe	Leu	Pro	Phe			

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Tyr	Lys	Gln	Glu	Gly	Asp	Lys	Cys	Val	Glu	
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Lys	Lys	Ile	Thr	Cys	Glu	Cys	Thr	Lys	Pro	
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<212> DNA

<213> *Plasmodium falciparum* 3D7 MSP1₄₂

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attagaatct	gatttaatgc	aatttaaaca	tatatacctca	240
aatgaataca	ttattgaaga	ttcatttaaa	ttattgaatt	280
cagaacaaaa	aaacacactt	ttaaaaagtt	acaaatatat	320
aaaagaatca	gtagaaaatg	atattaaatt	tgcacaggaa	360
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Leu Lys Lys Gln Ile Glu Lys Asn Ile Phe
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Asn Ser Arg Leu Lys Lys Arg Lys Tyr Phe
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          95         100
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Pro Phe Leu Thr	Asn Ile Glu Thr Leu Tyr		
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	205		210
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Pro Thr Asp Phe	Glu Ala Ile Lys Lys Leu		
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Gly Lys Leu Leu	Ser Thr Gly Leu Val Gln		
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Ile Phe Pro Asn	Thr Ile Ile Ser Lys Leu		
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Ile Glu Gly Lys	Phe Gln Asp Met Leu Asn		
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10/14

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<213> Artificial sequence

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<223> *E. coli* expressed *P. falciparum* MSP-1₄₂ (3D7)

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<212> PRT

<213> Artificial sequence

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Glu	Asn	Glu	Tyr	Asp	Val	Ile	Tyr	Leu	Lys	
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Pro	Leu	Ala	Gly	Val	Tyr	Arg	Ser	Leu	Lys	
				45					50	
Lys	Gln	Ile	Glu	Lys	Asn	Ile	Phe	Thr	Phe	
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Arg	Leu	Lys	Lys	Arg	Lys	Tyr	Phe	Leu	Asp	
				75					80	
Val	Leu	Glu	Ser	Asp	Leu	Met	Gln	Phe	Lys	
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His	Ile	Ser	Ser	Asn	Glu	Tyr	Ile	Ile	Glu	
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Glu	Ser	Ile	Lys	Lys	Val	Ile	Lys	Glu	Glu	
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Lys	Glu	Lys	Phe	Pro	Ser	Ser	Pro	Pro	Thr	
				165					170	
Thr	Pro	Pro	Ser	Pro	Ala	Lys	Thr	Asp	Glu	
				175					180	
Gln	Lys	Lys	Glu	Ser	Lys	Phe	Leu	Pro	Phe	
				185					190	
Leu	Thr	Asn	Ile	Glu	Thr	Leu	Tyr	Asn	Asn	
				195					200	
Leu	Val	Asn	Lys	Ile	Asp	Asp	Tyr	Leu	Ile	
				205					210	
Asn	Leu	Lys	Ala	Lys	Ile	Asn	Asp	Cys	Asn	
				215					220	
Val	Glu	Lys	Asp	Glu	Ala	His	Val	Lys	Ile	
				225					230	
Thr	Lys	Leu	Ser	Asp	Leu	Lys	Ala	Ile	Asp	
				235					240	

Asp	Lys	Ile	Asp	Leu	Phe	Lys	Asn	Pro	Tyr	245	250
Asp	Phe	Glu	Ala	Ile	Lys	Lys	Leu	Ile	Asn	255	260
Asp	Asp	Thr	Lys	Lys	Asp	Met	Leu	Gly	Lys	265	270
Leu	Leu	Ser	Thr	Gly	Leu	Val	Gln	Asn	Phe	275	280
Pro	Asn	Thr	Ile	Ile	Ser	Lys	Leu	Ile	Glu	285	290
Gly	Lys	Phe	Gln	Asp	Met	Leu	Asn	Ile	Ser	295	300
Gln	His	Gln	Cys	Val	Lys	Lys	Gln	Cys	Pro	305	310
Glu	Asn	Ser	Gly	Cys	Phe	Arg	His	Leu	Asp	315	320
Glu	Arg	Glu	Glu	Cys	Lys	Cys	Leu	Leu	Asn	325	330
Tyr	Lys	Gln	Glu	Gly	Asp	Lys	Cys	Val	Glu	335	340
Asn	Pro	Asn	Pro	Thr	Cys	Asn	Glu	Asn	Asn	345	350
Gly	Gly	Cys	Asp	Ala	Asp	Ala	Thr	Cys	Thr	355	360
Glu	Glu	Asp	Ser	Gly	Ser	Ser	Arg	Lys	Lys	365	370
Ile	Thr	Cys	Glu	Cys	Thr	Lys	Pro	Asp	Ser	375	380
Tyr	Pro	Leu	Phe	Asp	Gly	Ile	Phe	Cys	Ser	385	390

Ser

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24

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ccggttctgg taccgac 57
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